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PURPOSE: To utilize an optical fiber cable for use other than information transmission using a light beam, by burying and laying the optical fiber cable through an earthen layer of small thickness on an underground transmission cable buried under the ground.

CONSTITUTION: At first, a groove 15 is dug on the ground 5, earth is piled up to some extent on the bottom surface of this groove 5, and an underground transmission cable 1 is laid on said earth. Subsequently, on this cable, earth is piled up to thickness of some extent, and after that, an optical fiber cable 2 is laid so as to be just above the transmission cable 1. Also, on this cable, earth is piled up, and as necessary, a protective plate consisting of concrete, etc. is placed on which earth is piled up 6. In this way, it is also possible to detect a disconnected spot of the underground transmission cable 1 by utilizing the optical fiber cable 2.

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